Docket No.

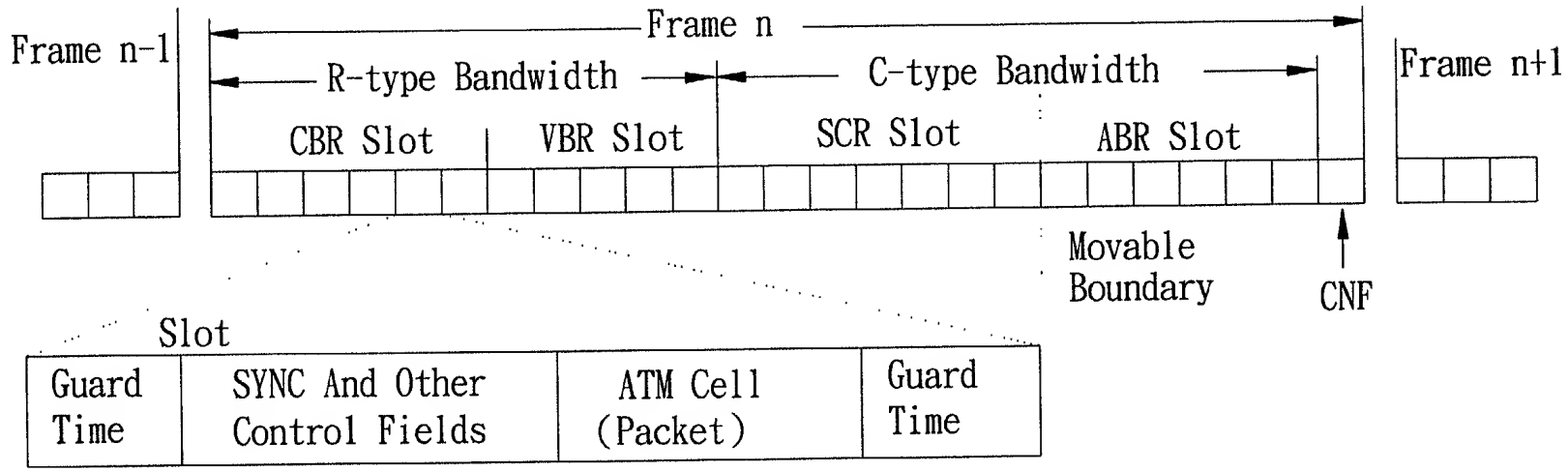



FIG. 1

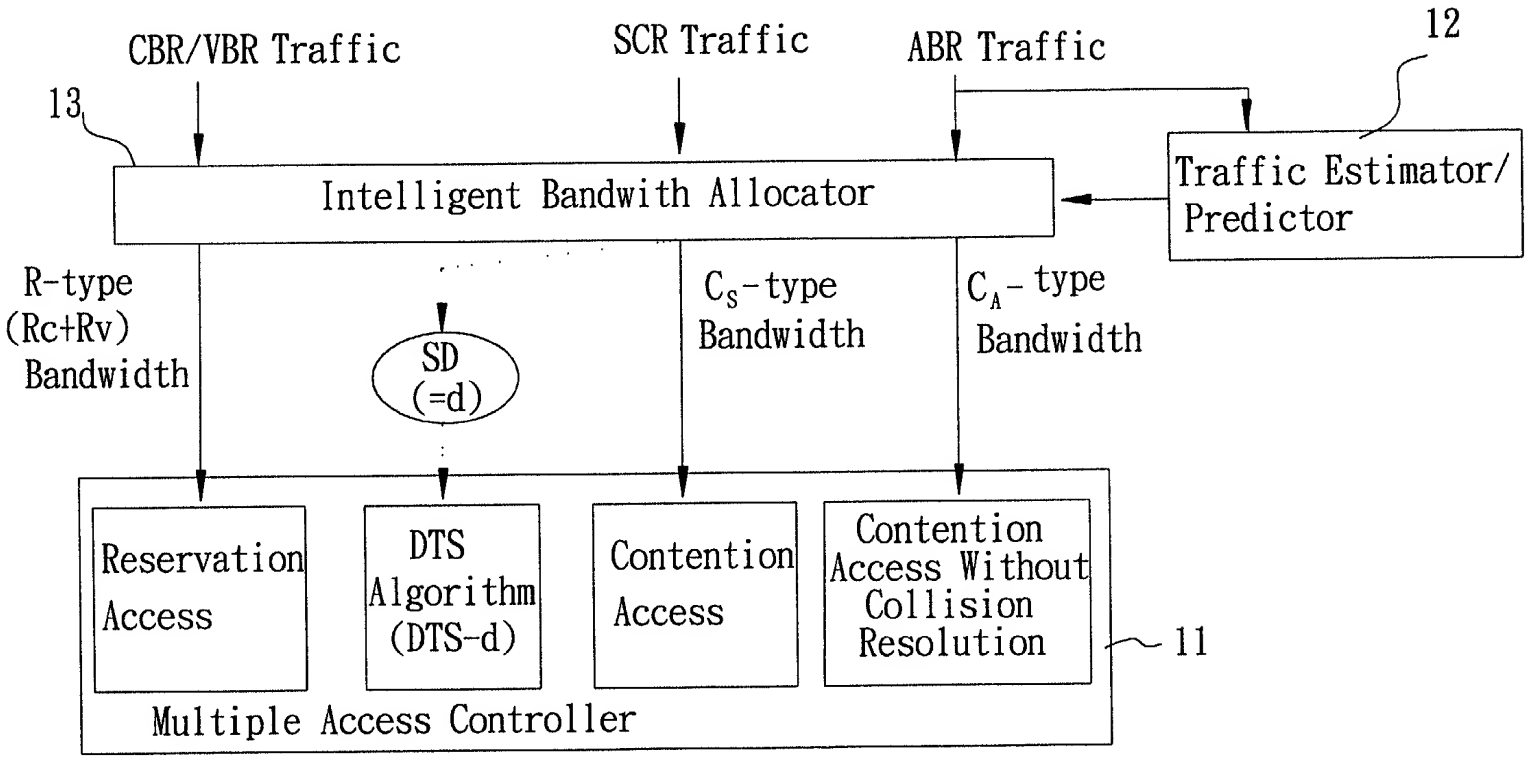

CBR/VBR Traffic
SCR Traffic
ABR Traffic
12
13
Intelligent Bandwith Allocator
Traffic Estimator/
Predictor
R-type
(Rc+Rv)
Bandwidth
SD
(=d)
$C_S$-type
Bandwidth
$C_A$-type
Bandwidth
Reservation
Access
DTS
Algorithm
(DTS-d)
Contention
Access
Contention
Access Without
Collision
Resolution
11
Multiple Access Controller

FIG. 2

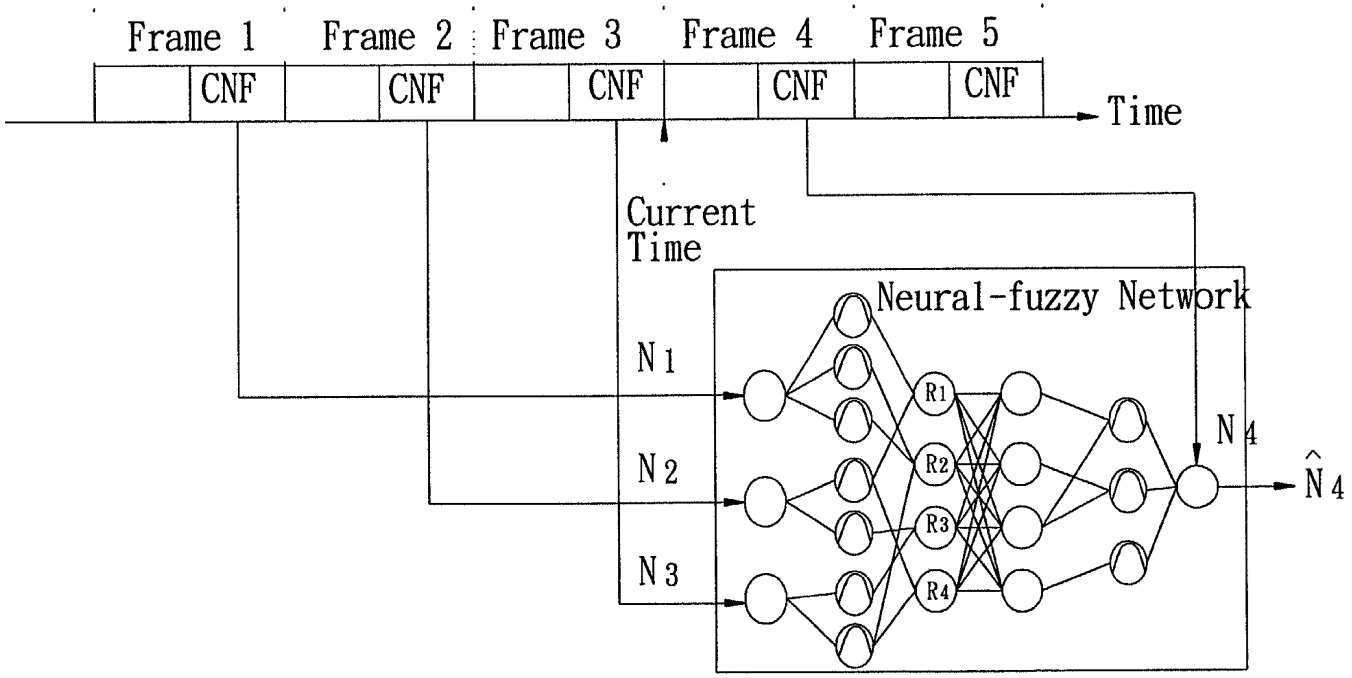
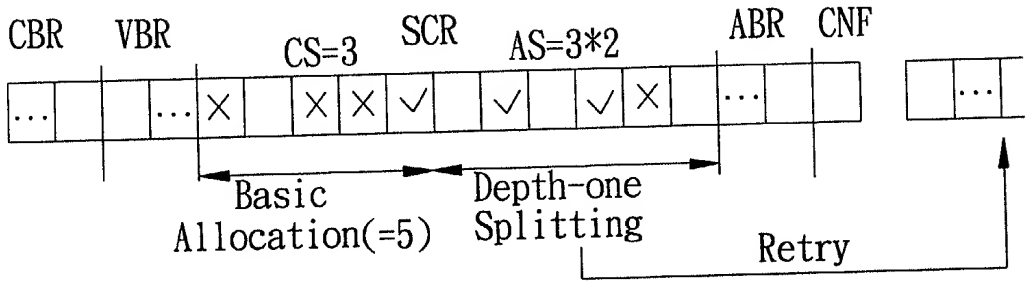

Frame 1
Frame 2
Frame 3
Frame 4
Frame 5
CNF
CNF
CNF
CNF
CNF
Time
Current Time
Neural-fuzzy Network
N1
N2
N3
R1
R2
R3
R4
N4
$\hat{N}4$

FIG. 3




CS=Number Of Collided Slots
AS=Number Of Allocated Slots

:Slot With Collision
:Slot Without Collision
:Idle Slot

FIG. 4